

TRI Total Releases for All Industries (1998-99), Original* (Manufacturing) and New Industries

	Original Industries			New Industries			All TRI Industries		
	1998 Number	1999 Number	Change 1998-1999 Percent	1998 Number	1999 Number	Change 1998-1999 Percent	1998 Number	1999 Number	Change 1998-1999 Percent
Total Facilities	21,334	20,698	-3.1	1,988	1,941	-2.4	23,322	22,639	-3.0
Total Forms	70,975	69,471	-2.1	15,142	14,597	-3.7	86,117	84,068	-2.4
Form Rs	60,641	59,265	-2.3	12,492	12,124	-3.0	73,133	71,389	-2.4
Form As	10,334	10,206	-1.2	2,650	2,473	-7.2	12,984	12,679	-2.4
	Pounds	Pounds	Percent	Pounds	Pounds	Percent	Pounds	Pounds	Percent
On-site Releases									
Total Air Emissions	1,270,193,503	1,175,054,932	-7.5	811,010,244	854,309,491	5.3	2,081,203,747	2,029,364,423	-2.5
Fugitive Air Emissions	294,971,535	270,765,473	-8.2	6,968,039	7,546,743	8.3	301,939,574	278,312,216	-7.8
Point Source Air Emissions	975,221,968	904,289,459	-7.3	804,042,205	846,762,748	5.3	1,779,264,173	1,751,052,207	-1.6
Surface Water Discharges	238,483,036	253,591,816	6.3	7,553,237	5,289,960	-30.0	246,036,273	258,881,776	5.2
Underground Injection	209,711,433	199,547,803	-4.8	56,708,764	58,097,341	2.4	266,420,197	257,645,144	-3.3
Class I Wells	209,531,530	199,398,335	-4.8	23,536,771	22,861,227	-2.9	233,068,301	222,259,562	-4.6
Class II-V Wells	179,903	149,468	-16.9	33,171,993	35,236,114	6.2	33,351,896	35,385,582	6.1
On-site Land Releases	343,781,378	323,667,851	-5.9	4,022,499,616	4,423,054,923	10.0	4,366,280,994	4,746,722,774	8.7
RCRA Subtitle C Landfills	13,792,720	12,440,355	-9.8	208,597,751	208,055,567	-0.3	222,390,471	220,495,922	-0.9
Other On-site Landfills	100,142,596	86,002,777	-14.1	167,773,997	157,900,439	-5.9	267,916,593	243,903,216	-9.0
Land Treatment	8,154,812	8,961,222	9.9	1,313,197	1,864,462	42.0	9,468,009	10,825,684	14.3
Surface Impoundments	81,151,225	73,771,878	-9.1	1,338,519,185	1,157,407,580	-13.5	1,419,670,410	1,231,179,458	-13.3
Other Disposal	140,540,025	142,491,619	1.4	2,306,295,486	2,897,826,875	25.6	2,446,835,511	3,040,318,494	24.3
Total On-site Releases	2,062,169,350	1,951,862,402	-5.3	4,897,771,861	5,340,751,715	9.0	6,959,941,211	7,292,614,117	4.8
Off-site Releases									
Storage Only ^a	6,052,516	6,283,205	3.8	2,716,688	789,462	-70.9	8,769,204	7,072,667	-19.3
Solidification/Stabilization ^b	42,773,352	53,081,746	24.1	5,631,223	5,955,229	5.8	48,404,575	59,036,975	22.0
Metals and Metal Compounds Only									
Wastewater Treatment (excluding POTWs) ^{-c}	3,772,346	6,488,311	72.0	115,300	185,525	60.9	3,887,646	6,673,836	71.7
Metals and Metal Compounds Only									
Transfers to POTWs ^{-d}	3,009,214	3,345,324	11.2	419,223	58,383	-86.1	3,428,437	3,403,707	-0.7
Metals and Metal Compounds Only									
Underground Injection	7,566,290	20,792,445	174.8	335,745	2,763,898	723.2	7,902,035	23,556,343	198.1
Landfills/Surface Impoundments	215,995,597	215,936,934	0.0	68,149,933	62,872,238	-7.7	284,145,530	278,809,172	-1.9
Land Treatment	1,396,685	4,239,385	203.5	487,775	598,919	22.8	1,884,460	4,838,304	156.7
Other Land Disposal	15,616,540	15,821,423	1.3	12,041,927	10,865,562	-9.8	27,658,467	26,686,985	-3.5
Other Off-site Management	10,303,490	16,838,842	63.4	8,809,908	17,642,367	100.3	19,113,398	34,481,209	170.4
Transfers to Waste Broker for Disposal	14,087,152	11,146,540	-20.9	884,192	2,506,673	183.5	14,971,344	13,653,213	-8.8
Unknown ^e	3,486,757	3,465,479	-0.6	468,765	537,602	14.7	3,955,522	4,003,081	1.2
Total Off-site Releases	324,059,939	357,439,634	10.3	100,060,679	104,775,858	4.7	424,120,618	462,215,492	9.0
Total On-site and Off-site Releases	2,386,229,289	2,309,302,036	-3.2	4,997,832,540	5,445,527,573	9.0	7,384,061,829	7,754,829,609	5.0

Note: On-site Releases are from Section 5 of Form R. **Off-site Releases** are from Section 6 (transfers off-site to disposal) of Form R. **Off-site Releases** include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. **Off-site Releases** do not include transfers to disposal sent to other TRI Facilities that reported the amount as an on-site release.

Facilities/forms are included in the original industry category if they did not report a new industry SIC code. Facilities/forms are included in the new industry category if the facility/form has a new industry SIC code and no SIC code in 20-39. If the facility reported in any year prior to 1998 and the facility/form has a combination of original and new industry SIC codes, then the facility/form is included in the original industry category. If the facility reported for the first time in 1998 or later and the facility/form has a combination of original and new industry SIC codes, then the facility/form is One facility, Phelps Dodge Miami Inc. in Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 1999 and previous years has been included in the new industry category SIC code 10 for the purpose of this analysis.

Due to an EPA data entry error, one chemical reporting revision for 1999 by a facility, the US Army Letterkenny Depot in Chambersburg, PA, was not included in this table. At the time of publication, the facility had notified EPA that it anticipated revising off-site transfers to disposal (other off-site management) for manganese compounds from 5,584,900 pounds to below 500 pounds. Revisions by this facility of two other compounds are included in this table, but not included in the tables in the 1999 TRI Public Data Release report.

^a Storage only (disposal code M10) indicates that the toxic chemical is sent off-site for storage because there is no known disposal method. Amounts reported as transferred to storage only are included as a form of disposal (off-site release). See Box 1-5.

^b Beginning in reporting year 1997, transfers to solidification/stabilization of metals and metal compounds (waste treatment code M41) are reported separately from transfers to solidification/stabilization of non-metal TRI chemicals (waste treatment code M40). Because this treatment method prepares a metal for disposal, but does not destroy it, such transfers are included as a form of disposal (off-site release). See Box 1-6. Reports under code M40 of metals and metal compounds have been included in solidification/stabilization of metals and metal compounds in this report.

^c Beginning in reporting year 1997, transfers to wastewater treatment (excluding POTWs) of metals and metal compounds (waste treatment code M61) are reported separately from transfers to wastewater treatment of non-metal TRI chemicals (waste treatment code M60). Because wastewater treatment does not destroy metals, such transfers are included as a form of disposal (off-site release). See Box 1-6. Transfers of metals and metal compounds reported under code M60 have been included in transfers of metals metal compounds to wastewater treatment.

^d Reported as discharges to POTWs in Section 6.1 of Form R. EPA considers transfers of metals and metal compounds to POTWs as an off-site release because sewage treatment does not destroy the metal content of the waste material.

^e Unknown (disposal code M99) indicates that a facility is not aware of the type of waste management used for the toxic chemical that is sent off-site. Amounts reported as unknown transfers are treated as a form of disposal (off-site release).

* "Original" industries include manufacturing industries in SIC codes 20-39 and federal facilities.